



Metcalf 09/929,615 August 13, 2001

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RE: Patent application of Metcalf
US Pat. Application Serial No. 09/929,615
Filed August 13, 2001
Examiner: Lun-yi Lao, Group Art Unit 2673

ENTITLED: APPAREL WITH CONTIGUOUS VIDEO-IMAGING SURFACE AND
APPARATUS FOR CONTROLLING AND FORMATTING VIDEO IMAGERY ON
SUCH SURFACES

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AMENDMENT

December 2, 2003

Commissioner of Patents and Trademarks
Washington, District of Columbia 20231

Examiner,

In response to our recent phone conversation concerning issues cited in the last office action
pertaining to the above-referenced application, please find attached:

1. Amended drawings – ‘Replacement Sheet’
2. Amended claims
3. Minor amendment to the specification, specifically--corrections of cross-referenced
provisional patent application number / date, (titled “SPECIFICATION AMEND-
MENT”) and
4. “Remarks” addressing the relied upon prior art (e.g., no video and / or color capability of
Albert et al invention) and internet references re: electrophoresis pixel switching as ten
times too slow for video.

Respectfully Submitted,

Signed, Darrell Metcalf -- Applicant

Regarding "Drawing Amendment"

During the phone conversation mentioned above, the applicant was asked to place video content on figures depicting embodiments of the invention. Please find attached one amended drawing sheet # 1 of 4 marked "Replacement Sheet", wherein a portion of a stippled representation of a video 'Test Pattern' is shown on the two-dimensional apparel (vest) segments seen FIGS. 1A and 1B which, when combined, create a three-dimensional apparel (vest) having the contiguous video-imaging surface shown in FIG. 1C. Similarly, the two-dimensional apparel (skirt) segments seen FIGS. 2A and 2B when combined create a three-dimensional apparel (skirt) having the contiguous video-imaging surface shown in FIG. 2C.

Explanation of Amendment of Claims:

During the above-mentioned phone conversation, the applicant asked—in view of the eighty-nine references to the term "video" appearing in the Metcalf application, and the absence of any mention of the word "video" in the Albert et al invention—if it would be permissible to add reference to video capability in an independent claim form. Some initial wording relating to the inserting of the phrase "full-motion and full-speed video" was discussed and considered to be a reasonable addition. As a result, the applicant is canceling two dependent claims #6 and #17 and adding two independent claims #29 and #30. Claim 29 is identical to claim 1 (original) other than the addition of the phrase:

"b. said pixelated material can support the display of full speed, full motion color video signal;"

Claim 30 is identical to claim 1 (original) other than the addition of the phrase

"b. said pixelated material can support the display of full speed, full motion grayscale video signal;"

Claims #2 and #26 have been amended to correct typos. The amendment of the claims are numbered page 1 – 6 and are separately attached with this response to the office action and phone call.

Specification Quotes of Metcalf Application Pertaining to the Use of "Video" and Quotes Pertaining to the Sizing, Shaping and Formatting of Video Content

During the phone conversation between the examiner and the applicant, the latter was asked to provide excerpts from the specification regarding the comprehensive use of the term video throughout the specification, and to also provide excerpts pertaining to the 'sizing, shaping and formatting' of video content relative to the irregular shapes making up the apparel segments from which a wide variety of apparel are derived. Please find attached, and separately stapled, the following two documents:

1. 'Metcalf "Video" References' (five pages)

- 1 2. 'Quotes from Metcalf Specification 09/929,615 Pertaining to the Sizing, Shaping and
2 Formatting of Video Content to the Shape of Apparel or Apparel Segments' (two pages)
3

4 **Minor Amendment to Specification Attached**
5

6 In the previously submitted specification, the cross-reference of the non-provisional application
7 to its related provisional application is incorrect. Attached is a "SPECIFICATION
8 AMENDMENT" (one page) having a replacement paragraph. For ease of reference and context,
9 the first five written lines of the application, including the invention title, are provided.
10

11 **Internet References to Electrophoretic Display Technology in the 150-250 Millesecond**
12 **Pixel Switching Speed -- 10 X slower than needed for Full-Motion / Full-Speed Video**
13 **Display**
14

15 As per discussed in the phone conversation, the applicant is submitting a record of several
16 internet articles (with URL website addresses referenced) which state that electrophoresis
17 technology is too slow for video. NOTE: more recent attempts at making electrophoresis video
18 capable by making pixel cells which employ electrophoretic nanoparticles are now being
19 explored, however the term "nanoparticles" does not appear in the relied upon Albert et al prior
20 art. Five pages of relevant internet references regarding the 'too slow for video' speed of
21 electrophoretic pixel switching are attached, and separately paper clipped together. Four articles
22 are provided, others are available upon request.
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CONTENTS:

- Amendment Cover Letter (5 pages)
- Drawing "Replacement Sheet" (1 sheet)
- "Specification Amendment" minor change (1 page)
- Claims Amendment (6 pages)
- Application quotes pertaining to the use of "video" (5 pages)
- Application quotes pertaining to video formatting (2 pages)
- Internet Articles (references 5 pages)
- Post Card 'Receipt of Contents'

For Patent Entitled:

**APPAREL WITH CONTIGUOUS VIDEO-IMAGING SURFACE AND APPARATUS
FOR CONTROLLING AND FORMATTING VIDEO IMAGERY ON SUCH SURFACES**

APPLICATION NO. 09/929,615